AMSAT News Service Weekly Bulletins
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SB SAT @ AMSAT $ANS-221.01
KITSAT-A LAUNCH INFO: PART I

HR AMSAT NEWS SERVICE BULLETIN 221.01 FROM AMSAT HQ
SILVER SPRING, MD AUGUST 21, 1992 BID:$ANS-221.01
TO ALL RADIO AMATEURS BT

More KITSAT-A/S80T/POSEIDON/TOPEX Launch Details: Part I

The 52nd Ariane launch is to place the TOPEX/POSEIDON satellite and two auxiliary payloads, KITSAT-A and S80/T, into a quasi-circular 66 degree inclined orbit using an Ariane 42P launch vehicle equipped with 2 solid strap-on boosters. This will be the 2nd launch of an Ariane 4 in the 42P configuration. It will be launched from the Ariane launch complex ELA 2, in Kourou, French Guiana.

The launch vehicle performance requirement is 2,661 kg (5,868 lb), of which 2,502 kg (5,517 lb) represent the satellite mass. The total vehicle mass at liftoff is 320,587 kg.

Required Orbit Characteristics:
Perigee Altitude ..... 1322 km
Apogee Altitude ..... 1330 km
Inclination ..... 66 degrees

The Ariane 42P lift-off for Flight 52 is scheduled on Monday August 10, 1992, as soon as possible within the following launch window:

Kourou Time	GMT	Washington, DC
20:08 - 20:53	23:08 - 23:53	19:08 - 19:53

Launch Vehicle: Ariane 42P.

This is a three-stage liquid fueled launcher with solid fueled strap-on boosters. The first stage (L220) is built by Aerospatiale, and is powered by 4 liquid fueled Viking V engines. The second stage (L33) is built by MBB Erno and is powered by a single Viking IV engine. Both the Viking IV and V engines are manufactured by SEP. The first and second stages use a biliquid UH25/N2O4 fuel. The third stage (H10) is built by Aerospatiale, and is powered by a cryogenic LH2/LO2 fueled HM-7B engine built by SEP. The two strap-on boosters (PAP) are built by BPD and use a solid Flexadrine propellant. The fully assembled launch vehicle stands 55.2 meters high on the pad. It uses the Ariane Type 2 payload fairing.

Flight Profile:

+01:29 Solid strap-on booster jettison
+03:24 First stage separation
+03:48 Fairing jettison
+05:35 Second stage separation
+17:37 Third stage shutdown / orbit injection
+19:29 TOPEX/POSEIDON separation
+23:36 KITSAT-A and S80/T separation
+27:46 End of Ariane mission 52

Payloads:

TOPEX/POSEIDON is a cooperative program between NASA and CNES for studying the ocean surface topography. The satellite is built by FAIRCHILD SPACE under contract to NASA/JPL. For 3 to 5 years the altimeter payload will survey the ocean circulation on a global scale.

Total mass at lift-off .... 2,402 kg
Dry mass ..... 2,185 kg
On-board power ..... 2,140 W (end of life)
Solar panel span ..... 8.7 m
Orbital altitude ..... 1336 km

[The AMSAT News Service (ANS) would like to thank Mr. Dean Adams for the this bulletin item.]

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SB SAT @ AMSAT $ANS-221.02
KITSAT-A LAUNCH INFO: PART II

HR AMSAT NEWS SERVICE BULLETIN 221.02 FROM AMSAT HQ
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TO ALL RADIO AMATEURS BT

More KITSAT-A/S80T/POSEIDON/TOPEX Launch Details: Part II

Auxiliary Payloads:

KITSAT-A uses the UOSAT platform built at University of Surrey (UK) for the Korean Advanced Institute of Science and Technology. It will be used for store and forward communications and various experiments.

Mass ..... 50 kg
On-board power ..... 21 W (end of life)
Nominal lifetime ..... 5 years
Satellite is 0.35 x 0.35m in size, with a 6m deployable mast

Instruments:
Two CCD cameras with 4 km and 400 meter resolution
Digital signal processing experiment
Transponder for store and forward communications
In-orbit radiation measurement experiment

S80/T is built by MATRA MARCONI SPACE for CNES, also using a platform of the UOSAT type. It will be used to study use of the VHF band for mobile communications.

Mass ..... 50 kg
On-board power ..... 26 W
Nominal lifetime ..... 1 year
Satellite is 0.35 x 0.35m in size, with a 6m deployable mast

Payload:
1 transponder- 148-149.9 mhz reception
137-138.0 mhz transmission

Launch coverage:

All Ariane missions are broadcast live via satellite from Kourou. Coverage begins at 30 minutes before launch, and continues until all payloads have been deployed. NASA Select-TV will also broadcast this mission on SBS-6, transponder 6.

Preliminary Keplerian Elements:

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Satellite: KITSAT-A                              KITSAT-A FREQUENCIES
Catalog number: 00001
Epoch time:      92224.00347223                  Uplink: 145.850 MHz
Element set:     001                                     145.900 MHz
Inclination:       66.0420 deg                   Downlink: 435.175 MHz
RA of node:       260.0000 deg
Eccentricity:     .0004800
Arg of perigee:    65.3250 deg
Mean anomaly:       5.0000 deg
Mean motion:   12.82910000 rev/day
Decay rate:      0.000e-00 rev/day*2
Epoch rev:               0
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[The AMSAT News Service (ANS) would like to thank Mr. Dean Adams for the
 this bulletin item.]

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SB SAT @ AMSAT $ANS-221.03
AMSAT-NA SPACE SYMPOSIUM UPDATE

HR AMSAT NEWS SERVICE BULLETIN 221.03 FROM AMSAT HQ
SILVER SPRING, MD AUGUST 21, 1992   BID: $ANS-221.03
TO ALL RADIO AMATEURS BT

AMSAT-NA Space Symposium & Annual Meeting Set For Oct 9-11th

AMSAT-NA officials are very excited about the "line-up" of the many outstanding speakers who will be presenting papers at this year's AMSAT-NA Space Symposium and Annual Meeting. This year's Space Symposium will be held in Washington, D.C. on the weekend of October 9-11th at the headquarters of the INTELSAT Corp. The scope of the papers being prepared for this Symposium is quite remarkable -- topics range from "Getting Started" by Mike Crisler to several papers dealing with Phase-3D by Dick Jansson and many others. Ron Broadbent from AMSAT-UK will be present to discuss OSCAR operations from the "European Users Perspective." So far, a total of 24 speakers are prepared to present papers during the 3 day Symposium. Symposium planners are very excited because they know as time gets closer to the deadline there will be even more speakers turning in their papers. All this makes for an excellent Space Symposium. Symposium planners urge everyone who is thinking about attending NOT TO PROCRASTINATE about sending in your registration forms. If you would like a registration form, please contact AMSAT-NA Headquarters at (301) 589-6062. Once you send in your registration form you will receive a "packet" of information about the most convenient hotels near the INTELSAT Headquarters and a map and directions on the best way to get there. So don't dely -- join us this year for the ninth AMSAT-NA Space Symposium and Annual Meeting.

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SB SAT @ AMSAT $ANS-221.04
AMSAT OPERATIONS NET SCHEDS

HR AMSAT NEWS SERVICE BULLETIN 221.04 FROM AMSAT HQ
SILVER SPRING, MD AUGUST 21, 1992   BID: $ANS-221.04
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AMSAT-NA Operations Net Schedule

AMSAT Operations Nets are planned for the following times. Mode B nets are conducted on AO-13 on a downlink frequency of 145.950 MHz and Mode J/L on a downlink of 435.970 MHz.

Date	UTC	Mode	Phs	NCS	Alt

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15-Aug-92       1300   B        105     WB6LLO  W9ODI
22-Aug-92       1435   J         55     WA5ZIB  WJ9F
29-Aug-92       1900   B         72     W9ODI   N7NQM

Guest commentators are planned.  Join the Net if you have questions.
In the unlikely event that either the Net Control Station or the alternate
do not call on frequency, any participant is invited to act as NCS.

Slow Scan Television on AO-13

SSTV planning sessions will follow the AMSAT Operations Nets.
Fall scheduling will require input from all interested operators.
Try all AMSAT Nets for impromptu schedules.

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SB SAT @ AMSAT   $ANS-221.05
SAD NEWS REACHES AMSAT-NA HQ

HR AMSAT NEWS SERVICE BULLETIN 221.05 FROM AMSAT HQ
SILVER SPRING, MD AUGUST 21, 1992     BID: $ANS-221.05
TO ALL RADIO AMATEURS BT

Death In The Family Of KA1M

AMSAT-NA officials was deeply sadden to hear about the sudden death of
Trudy Deskur, wife of Drew Deskur (KA1M).  Those who receive the AMSAT
Journal are aware that Drew is the editor for that fine publication.  If
you would like to send a card to pass along your condolences, send it to
Drew's QTH: 19 Parker Drive, North Reading, MA, 01864-3014.

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